07-25-06



HNDA 2023.2 (2003-052(PCT/US) PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Daniel M. Giáquinta et al.
International Application No. PCT/US2004/026847
Serial No. 10/568,516
Confirmation No. 1180
Filed February 15, 2006
International Filing Date June 18, 2004
Priority Date Claimed June 18, 2003
For PLATINUM-COPPER FUEL CELL CATALYST

July 24, 2006

TO THE COMMISSIONER FOR PATENTS, SIR:

## INFORMATION DISCLOSURE STATEMENT

In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicants submit the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein.

Applicants submit herewith copies of the foreign patent documents and/or literature references. Some of the attached Japanese references include English abstracts. Applicants do not make any representation as to the accuracy of the additional information.

The Commissioner is hereby authorized to charge to Deposit Account No. 19-1345 an amount sufficient to cover the fee specified in 37 C.F.R. §1.17(p) for submission of this Information Disclosure Statement, should a fee be required.

Respectfully submitted,

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	•		<i>!</i> /	Application Number	10/568,516
INFO	RMATIÔŊ	DISCRE	SURE	Filing Date	02-15-2006
INFORMATION DISCHOSURE STATEMENT BY APPLICANT				Confirmation Number	1180
				First Named Inventor	Daniel M. Giaquinta
(use as	many she	ets as ne	ecessary)	Group Art Unit	
				Examiner Name	Not Yet Assigned
Sheet	1	of	5	Attorney Docket No.	HNDA 2023. 1
					(2003-052)

		U.S	. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document  Kind Code (if known)		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	1	3,701,687	<u> </u>	Grubb et al.	10-31-1972
	2	3,711,385		Beer et al.	01-16-1973
	3	4,061,495	Α	Selman et al.	12-06-1977
	4	4,186,110		Jalan et al.	01-29-1980
	5	4,192,907		Jalan et al.	03-11-1980
	6	4,261,742	Α	Coupland et al.	04-14-1981
	7	4,677,035	Α	Fiedler et al.	06-30-1987
	8	4,683,119		Selman et al.	07-28-1987
	9	4,707,229		Dempsey et al.	11-17-1987
	10	4,716,087		Ito et al.	12-29-1987
	11	4,737,205		Selman et al.	04-12-1988
	12	4,781,803		Harris et al.	11-01-1988
	13	4,812,434		Pohlmann et al.	03-14-1989
	14	4,885,216	Α	Naik	12-05-1989
	15	4,885,376		Verkade	12-05-1989
	16	4,954,474		Tsurmi et al.	09-04-1990
	17	4,970,128		Itoh et al.	11-13-1990
	18	4,985,386		Tsurumi et al.	01-15-1991
	19	5,024,905		Itoh et al.	06-18-1991
	20	5,068,161		Keck et al.	11-26-1991
	21	5,077,141	A	Subhash K. Naik et al.	12-31-1991
	22	5,079,107		Jalan	01-07-1992
	23	5,096,866		Itoh et al.	03-17-1992
	24	5,126,216		Capuano et al.	06-30-1992
	25	5,178,971		Itoh et al.	01-12-1993
	26	5,189,005		Watanabe et al.	02-23-1993

Examiner	Date	
Signature	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup> Applicant is to place a check mark here if English Translation is attached or place an "A" here if English language abstract is attached.

PTO/SB/08A				Complete if Known				
				Applicat		10/568,516		
		N DISCL		Filing Date 0		2-15-2006		
STAT	<b>TEMENT</b>	<b>BY APP</b>	LICANT			1180		
				First Na	med Inventor	Daniel M. Giaquinta		
(use as	many sh	ieets as r	ecessary)	Group A				
				Examin	er Name	Not Yet Assigned		
Sheet	2	of	5	Attorney		HNDA 2023. 1		
			<u></u>			(2003-052)		
<del></del>	27	5,225,39	<u> </u>		Stonehart et al.	07-06-1993		
	28	5,246,79			Fisher et al.	09-21-1993		
· · · · · · · ·	29	5,516,38		A	Hisataka Kawai et al.	05-14-1996		
	30	5,593,93			Stonehart Stonehart	01-14-1997		
	31	5,635,43			Fukui et al.	06-03-1997		
	32	5,773,16			Surampudi et al.	06-30-1998		
	33	5,876,86			Itoh et al.	03-02-1999		
	34	5,939,22			Gunner et al.	08-17-1999		
	35	6,036,79		A	Mitsuhashi et al.	03-14-2000		
	36	6,045,67			Wu et al.	04-04-2000		
	37	6,048,63			Fuji et al.	04-11-2000		
<u> </u>	38	6,127,05			Pratt et al.	10-03-2000		
	39	6,171,72			Narayanan et al.	01-09-2001		
	40	6,183,89			Adzic et al.	02-06-2001		
	41	6,187,16		B1	Warren et al.	02-13-2001		
	42	6,187,46		B1	Shinkai et al.	02-13-2001		
	43	6,225,01		B1	Gotoh et al.	05-01-2001		
	44	6,268,07		B1	Kelley et al.	07-31-2001		
	45	6,294,28		B1	Tanaka et al.	09-25-2001		
	46	6,322,64		B1	Mitsuhashi et al.	11-27-2001		
	47	6,458,74	1	B1	Roark et al.	10-01-2002		
	48	6,632,29		B1	Harris	10-14-2003		
	49	6,730,35	0	B2	Finkelshtain et al.	05-04-2004		
	50	2002/00	04453	A1	Katori et al.	01-10-2002		
	51	2002/00	09626	A1	Terazono et al.	01-24-2002		
	52	2002/01	4103	A1	Ruettinger et al.	10-10-2002		
	53	2003/00	08196	A1	Wessel et al.	01-09-2003		
	54	2003/00	15425	A1	Ruth et al.	03-06-2003		
	55	2003/00		A1	Kourtakis	03-27-2003		
	56	2004/01		A1	Haugen et al.	07-22-2004		
		<u></u>			ENT DOCUMENTS			
Examiner	Cite	Fore	eign Patent Doo	cument	Name of Patentee or Applic	ant Date of Publication		
Examiner Signature					Date Considered			

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STA	TEMENT E	3Y APPL	ICANT	Confirmation Number	1180				
				First Named Inventor	Daniel M. Giaquinta				
(use as	s many she	ets as ne	ecessary)	Group Art Unit					
				Examiner Name	Not Yet Assigned				
Sheet 3 of 5			5	Attorney Docket No.	HNDA 2023. 1				
					(2003-052)				

Initials	No. <sup>1</sup>	Office	Number⁴	Kind Code (if known)	of Cited Document	of Cited Document MM-DD-YYYY	T <sup>6</sup>
	57	BE	895 174	Α	Johnson Matthey PLC	05-30-1983	
	58	EP	0355853	A2	N.E. Chemcat Corp.	02-28-1990	
	59	EP	0386764	A2	N.E. Chemcat Corp.	09-12-1990	
	60	EP	0469514	A2	N.E. Chemcat Corp.	09-05-1992	
	61	EP	0552587	A1	Stonehart et al.	07-28-1993	
	62	EP	0827225	A2	N.E. Chemcat Corp.	03-04-1998	
	63	EP	0838872	A3	Gunner et al.	04-29-1998	
	64	EP	0855449	A1	Mitsubishi Materials Corp.	07-29-1998	
	65	EP	0858987	B1	Amariglio et al.	08-19-1998	
	66	EP	1080435	B1	Lacy et al.	03-07-2001	
	67	GB	1363888		United Aircraft Corp.	08-21-1974	Α
	68	GB	2 029 857	Α	Johnson Matthey Co Ltd.	03-26-1980	
	69	GB	2 033 925	Α	Johnson Matthey Co Ltd.	05-29-1980	
	70	JP	2003-80085		Sony Corp.	03-18-2003	A√
	71	JP	01 021030	Α	Nippon Mining Co Ltd.	01-24-1989	Α
	72	JP	2001 294959	Α	Mitsubishi Heavy Ind Ltd.	10-26-2001	
	73	JP	2002-289208		Matsushita Electric Ind. Co.	10-04-2002	Α
	74	JP	2003-331855		Tokyo Inst. of Technol	11-21-2003	Α
	75	JP	08 100255	Α	Mitsubishi Materials Corp.	04-16-1996	Α
	76	JP	07 050008	Α	Showa Denko KK	02-21-1995	Α
	77	JP	06 007679	Α	Tanaka Kikinzoku Kogyo KK	01-18-1994	A√
	78	JP	06 065601	Α	Mitsubishi Materials Corp.	03-08-1994	Α
	79	JP	63 149356	Α	Res Inst Electric Magnetic Alloys	06-22-1988	Α
	80	JP	62 107040	Α	Sumitomo Metal Ind Ltd.	05-18-1987	Α
	81	JP	03 127459	Α	Fuji Electric Co. Ltd.	05-30-1991	Α
	82	JP	04 072029	Α	Mitsubishi Materials Corp.	03-06-1992	Α
	83	JP	04 066635	Α	Mitsubishi Materials Corp.	03-03-1992	Α
	84	JP	04 066632	Α	Mitsubishi Materials Corp.	03-03-1992	Α

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INFO	<b>RMATIO</b>	N DISCL	OSURE	Filing Date		02-15-2006		
STAT	EMENT	BY APP	LICANT	Confirma	ation Number	1180	)	
				First Nar	ned Inventor	Dani	iel M. Giaquinta	
(use as	many sh	eets as r	necessary)	Group A	rt Unit			
				Examine	r Name	Not '	Yet Assigned	
Sheet	4	of	5	Attorney	Docket No.	HND	OA 2023. 1	
						(200	3-052)	
	85	WO	99/16137		Narayanan et al.		04-01-1999	
	86	WO	00/35037	A1	Johnson Matthey PLC		06-15-2000	
	87	WO	02/22901	A1	Cannon Muskegon Corp		03-21-2002	
					T LITERATURE DOCU			
Examiner	Cite				TAL LETTERS), title of the ar			T <sup>6</sup>
Initials	No. <sup>1</sup>	of the itei			serial, symposium, catalog, lisher, city and/or country who			1
	88	CHU D			Soc. 1996, 143, 1685	cic pub	nistica	
	89				tals Review, Vol. 26, No. 4	. 1982	2. pp. 146-157	
	90				rnal of Materials Research			1
		pp. 897-						
	91	EPRON.	, "Influence of	ce of Oxidizing and Reducing Treatments on the Metal-Metal n the Activity for Nitrate Reduction of a Pt-Cu Bimetallic Catalyst"				
	1		Catalysis, 200					-
	92			'Catalysts for Low Temperature Fuel Cells Part 1: The Cathode m Metals Rev., 2002, 46, (1), pp. 3-14				
	93				lectrode Measurements or	n the (	CO Tolerance of a	<del> </del>
	93	High-Su	rface Area Pt/	Vulcan Car	bon Fuel Cell Electrocataly	vst". Jo	ournal of the	
				ty, 1999, 146(4), pp. 1296-1304				
	94	SCHMIC	T et al., "Cha	aracterization	on of High-Surface-Area El	ectroc	atalysts Using a	
		Rotating	Disk Electrod	e Configura	ation", <i>Journal of the Elect</i>	rochen	nical Society, 1998,	
			145(7), pp. 2354-2358					
	95				orial Electrochemical Stra			
					ials, Proceedings of the In		• •	
			Celis for venic Nagoya 2000,	•	attery Symposium", <i>The E</i>	iectroc	Sherriicai Society oi	
<u> </u>	96				torial Electrochemical Tech	nique	s for the Discovery	<del> </del>
	30				als", Direct Methanol Fuel			
					ol. 2001-4, New Jersey, Za	-		
		191-208						<u> </u>
	97				Pressure Dependencies of			
					nger Thin Films by Plasma	Polym	nerization", Ber.	
	1 22				4, 1994, pp. 631-635.	4/0269	847 dated	-
	98	1	onai Searcn <del>N</del> , 2005, 7 page	-	pplication No. PCT/US200	4/0200	547 ualeu	
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Signature	Considered	

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